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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,723	07/28/2003	Jeong Chan Lim	11037-129-999	6729
24341	7590 07/18/2005	•	EXAM	INER
MORGAN, LEWIS & BOCKIUS, LLP.			KRAMER, DEAN J	
2 PALO ALTO SQUARE 3000 EL CAMINO REAL			ART UNIT	PAPER NUMBER
PALO ALTO	), CA 94306	3652		
		•	DATE MAILED 07/10/000	-

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
		10/628,723	LIM, JEONG CHAN			
	Office Action Summary	Examiner	Art Unit			
		Dean J. Kramer	3652			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE   - External after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI sions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory is te to reply within the set or extended period for reply will, by eply received by the Office later than three months after the department term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a recon. a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT statute, cause the application to become ABA	reply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on					
		This action is non-final.				
3)□						
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1 and 5</u> is/are rejected.					
· —	Claim(s) <u>1-4 and 6-8</u> is/are objected to.					
8)	Claim(s) are subject to restriction a	and/or election requirement.				
Applicati	on Papers					
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>28 October 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment	(a)					
	e of References Cited (PTO-892)	4) 🗍 Interview Su	ımmary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
	nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date	B/08) 5) ☐ Notice of Inf 6) ☐ Other:				
S Patent and Tr						

Application/Control Number: 10/628,723

Art Unit: 3652

#### DETAILED ACTION

# Claim Objections

1. Claim 1 is objected to because of the following informalities: In claim 1, line 7, after the word "screw", it appears that the word –shaft—should be inserted in order to remain consistent with previously used claim terminology. Appropriate correction is required.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Littell (4,129,328) in view of Keene (3,970,201).

Littell shows a level adjusting mechanism comprising a horizontally moveable support member (35), a cylinder assembly (48), a shaft (51), an actuating means (50,54,55), and a suction cup (30). Littell's shaft (51) is not disclosed as a flexible screw shaft as is called for in the above claims of the instant application.

However, Keene shows a gripping mechanism comprising a plurality of shaft assemblies (22) that can be considered a "screw" shaft due to its threaded portion (26) and "flexible" due to its rubber portion (24).

Accordingly, it would have been obvious to one of ordinary skill in the art at the time the invention was made to replace the shaft (51) and joint (62,63) of Littell's mechanism with a flexible screw shaft similar to that shown in the Keene patent as an alternative yet functionally equivalent means of allowing for vertical linear movement of the shaft while accommodating slight angular variations with fewer moving parts.

Regarding claim 5, it would have been obvious to a person having ordinary skill in the art to provide a pump or motor for generating the pressurized air to actuate the piston (50) in the resulting assembly.

### Allowable Subject Matter

3. Claims 2-4 and 6-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

# **Drawings**

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: "31" as depicted in Figures 2A and 2B. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each

Application/Control Number: 10/628,723

Art Unit: 3652

drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Specification

5. The disclosure is objected to because of the following informalities: On page 4, line 7, reference number "40" should be changed to –39--.

Appropriate correction is required.

# **Priority**

6. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The Birk et al. patent shows a flexible shaft having a suction cup attached to its lower end.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean J. Kramer whose telephone number is (571) 272-6926. The examiner can normally be reached on Mon., Tues., Thurs., Fri. (7:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis can be reached on (571) 272-6928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Business Center (EBC) at 866-217-9197 (toll-free).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Déan J. Kramer Primary Examiner Art Unit 3652

djk 7/12/05